

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) An optical component composed of a crosslinked and cured-resin-product, the crosslinked and cured resin product comprising a perfluorocyclohexane ring and being prepared by radical polymerization,
wherein the crosslinked and cured resin product is prepared from a crosslinkable fluorine-containing monomer composition containing a perfluorocyclohexane ring and one or more radical polymerization groups by radical polymerization, and
wherein the radical polymerization group is an acryloyloxy or methacryloyloxy group.
2. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 1, wherein one or more perfluorocyclohexane rings derived from monosubstituted, disubstituted, and trisubstituted monomer are included as the perfluorocyclohexane ring.
3. (Cancelled)
4. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim [[3]]1, wherein the crosslinked and cured-resin-product is prepared from one or more monomers containing a ~~perfluorocyclohexane ring and two or more radical polymerization groups and~~ one or more fluorine-containing monomers containing no perfluorocyclohexane ring; or prepared from one or more monomers containing a ~~perfluorocyclohexane ring and a radical polymerization group and~~ one or more fluorine-containing monomers containing no perfluorocyclohexane ring and containing two or more radical polymerization group.
5. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 1, wherein the crosslinked and cured-resin-product is prepared from a composition of one or more polymers or copolymers containing a perfluorocyclohexane ring,

10. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 9, wherein one or more of the monomers containing a perfluorocyclohexane ring and two or more radical polymerization groups is used in combination with one or more of fluorine-containing monomers containing no perfluorocyclohexane ring.
11. (Cancelled)
12. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim ~~[[3]]~~1, wherein the monomer containing a perfluorocyclohexane ring and one or more radical polymerization groups contains an alkylene group represented by general formula: $--(CH_2)_n--$ ($n=0, 1$ or 2), between the perfluorocyclohexane ring and the radical polymerization group.
13. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 1, wherein the radical polymerization method is at least one of a photo-curing method and ~~a~~ a heat curing method.
14. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 1, wherein Young's modulus of the cured-resin-product is 2,500 MPa or more.
15. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 1, wherein the optical component ~~composed of a cured-resin-product~~ is an optical waveguide-like part.
16. (Currently Amended) The optical waveguide-like part according to claim 15, wherein the optical waveguide-like part is prepared by a stamper method.
17. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 2, wherein the crosslinked and cured resin product is prepared from

or the mixture thereof, dissolved in one or more monomers selected from fluorine-containing monomers containing two or more radical polymerization groups.

6. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 5, wherein one or more of the fluorine-containing monomers containing two or more radical polymerization groups contain a perfluorocyclohexane ring.
7. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 5, wherein the copolymer is a copolymer of one or more of monomers containing a perfluorocyclohexane ring and one radical polymerization group and one or more of fluorine-containing monomers containing no perfluorocyclohexane ring but containing one radical polymerization group.
8. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 5, wherein the copolymer is a copolymer of one or more of monomers containing a perfluorocyclohexane ring and one radical polymerization group and one or more of fluorine-containing monomers containing no perfluorocyclohexane ring but containing one radical polymerization group; and the one or more of the monomers in the fluorine-containing monomers containing two or more radical polymerization groups are at least ones ~~or more~~ of monomers containing a perfluorocyclohexane ring and two or more radical polymerization groups, and/or fluorine-containing monomers containing no perfluorocyclohexane ring and containing two or more radical polymerization group.
9. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 1, wherein the crosslinked and cured-resin-product is prepared from a composition containing one or more fluorine-containing polymers containing no perfluorocyclohexane ring, copolymer thereof, or the mixture thereof, dissolved in one or more monomers containing a perfluorocyclohexane ring and two or more radical polymerization groups.

one or more monomers containing a perfluorocyclohexane ring and one or more radical polymerization groups.

18. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 2, wherein the crosslinked and cured-resin-product is prepared from a composition of one or more polymers or copolymers containing a perfluorocyclohexane ring, or the mixture thereof, dissolved in one or more monomers selected from fluorine-containing monomers containing two or more radical polymerization groups.
19. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 6, wherein the copolymer is a copolymer of one or more of monomers containing a perfluorocyclohexane ring and one radical polymerization group and one or more of fluorine-containing monomers containing no perfluorocyclohexane ring but containing one radical polymerization group.
20. (Currently Amended) The optical component composed of a crosslinked and cured-resin-product according to claim 2, wherein the crosslinked and cured-resin-product is prepared from a composition containing one or more fluorine-containing polymers containing no perfluorocyclohexane ring, copolymer thereof, or the mixture thereof, dissolved in one or more monomers containing a perfluorocyclohexane ring and two or more radical polymerization groups